



How Numetric Generates Greater Confidence & Consensus Around Safety Decisions

Your Department of Transportation relies on you to provide crash data, safety analysis, and other services in a timely manner to keep safety top of mind on every project. As simple as this sounds, your reality is far from this ideal and it may be impeding your DOT's safety efforts. Here's why.

THE PROBLEM: DIFFICULT DATA PREVENTS IN-DEPTH ANALYSIS AND HURTS TRANSPARENCY

You have plenty of crash data. So why is it so hard to disseminate the right data to your stakeholders? Because:

- The data was gathered in various formats and stored in different systems.
- Only those with programming expertise can extract data from your systems.
- Your division is inundated with requests from internal and external stakeholders for data, reports, and safety analyses.
- Even for experts, data requests can take hours to fulfill while safety analysis can take weeks, creating a bottleneck for crash data-dependent projects.

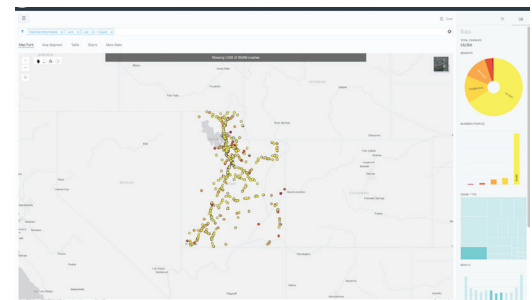
The result: Engineers must settle for less-than-in-depth analysis and have less confidence in their recommendations. With such sparse data access, your DOT lacks a single source of truth, relies heavily on anecdotes and institutional knowledge, and struggles to find common ground on safety decisions. The effectiveness of your efforts to improve your state's roadway safety are in doubt.

THE SOLUTION: UNLOCK CRASH DATA AND STREAMLINE ANALYSIS WITH NUMETRIC'S SAFETY SUITE

By tapping into the power of cloud-based applications, you can empower everyone in your DOT to be more data-driven in making your roadways safer. This starts by partnering with Numetric's data experts to prepare, combine, structure, and manage your data. Then, with your data in order, you are ready to use **Numetric's Safety Suite** to streamline crash queries, network screening, safety analysis, and the sharing of data with stakeholders, via **four powerful apps**.

CRASH QUERY

No programming expertise is required to use this robust GIS interface not just to view your state's crashes, but to filter and drill into the causes behind them—in seconds, instead of days.



Apps for DOT Engineers, by DOT Engineers

Numetric is not just another generic tool with a DOT wrapper slapped on it. It was founded by a handful of safety and design engineers who saw an opportunity to use cloud-based apps to solve DOTs' most pressing data challenges. Today, Numetric remains exclusively dedicated to helping DOTs be more efficient, data-driven, and focused in making their roadways better and safer.

"Numetric allows data to be distributed to everyone who needs it in an intuitive way so that they can interact with it and use it day to day. This is a game changer and allows us to incorporate safety into everything UDOT does."

W. SCOTT JONES

Safety Programs Engineer
Utah Department of Transportation

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- **Full text search** allows you to break out crash results by dozens of attributes, like route, road segment, date range, driver age, vehicle type, cause of accident, and more.
- **Spatial search** lets you simply highlight a section on a map to zero in on crash data in a specific area.
- **Charts** enable you to identify those conditions that are most common in crashes in intuitive visual charts.
- **Flyout details** let you dig into images and details of individual crashes and obtain Highway Safety Manual-powered countermeasure recommendations.

Best of all, you can give any stakeholder access to the Crash Query App and trust that it is intuitive enough for them to obtain their own data and perform their own analysis, without having to wait your assistance.

“Having access to Numetric’s platform enables one to narrow in on specific crash events from within gigabytes of data, mostly through the click of a mouse. It has become an invaluable resource.”

JOSEPH WEISS

Transportation Safety Analyst
Rutgers Center for Advanced Infrastructure and Transportation

NETWORK SCREENING

Numetric’s Network Screening App empowers traffic and safety engineers to eliminate weeks of work gathering and analyzing data to determine road segment rankings.

- **Network screening rankings** can be viewed in one interface.
- **Filters** let you see road segment rankings by dozens of attributes, like ‘alcohol-related’ or ‘weather-related’.
- **Flagging for future evaluation** allows you to identify and move poor road segments into the Safety Analysis App for further analysis.

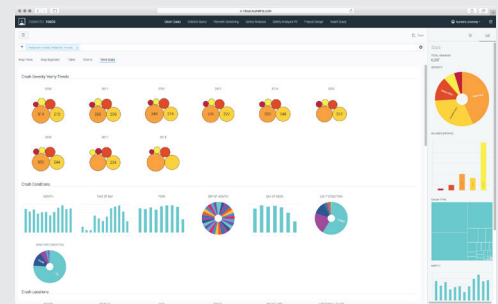
Aside from saving priceless time and budget, the Network Screening App also provides a much-needed single source of truth on segment rankings.

SAFETY ANALYSIS

With this app, the task of performing benefit-cost analysis and prioritizing projects goes from weeks to hours, with data-driven results you can count on.

- **Location-specific analysis** uses segment stats, maps, and crash details to identify potential countermeasures.
- **Treatments** can be added to the segment, and the service life and CMF of each treatment are automatically populated according to HSM guidelines.
- **Benefit-cost ratios** are automatically calculated for each potential countermeasure based on treatments and reduction in crashes.
- **Prioritization and ranking** of projects for future funding can then occur, based on these calculations, right in the app.

Most importantly, the speed of Numetric’s Safety Analysis App allows you to perform in-depth analysis and generate recommendations that you can have full confidence in on every project.



WORKBOOKS

Your stakeholders’ data needs are as diverse as they are. This customizable app lets you provide just the right kind of data experience for each of them.

- **Easy, cloud-based access** means that you can give anyone inside or outside your DOT the ability to interact with the data themselves, while keeping your data safe and secure.
- **Flexible settings** let you provide only static reports and dashboards to some stakeholders, while you allow other stakeholders to drill into and explore the data.

You and your team are relieved from manually disseminating crash data to every requester, and more accessible crash data makes your DOT more safety-conscious. It’s a win-win.

Free your crash data for safer roadways

Numetric was built for Department of Transportation engineers by Department of Transportation engineers. It is dedicated to empowering DOTs to be more efficient, data-driven, and focused on making their roadways better and safer, via a host of SaaS applications and data services made exclusively for DOTs. To learn how Numetric can unlock your crash data and make your department more safety-conscious, **sign up for a custom demo at numetric.com.**